NUMBER 1

Original Communications:

Electrocardiographic and Vectorcardiographic Study of Interatrial Conduction Disturbances with Left Atrial Retrograde Activation
By A. Bayes de Luna, R. Fort de Ribot, E. Trilla, J. Julia, J. Garcia, J. Sadurni, J. Riba and F. Sagues 1

Non-Transmural Infarction: Clinical Distinction Between Patients with ST Depression and Those with T Wave Inversion
By M.A. Varat 15

Overdrive Excitation and Cellular Calcium Load in Canine Cardiac Purkinje Fibers
By F. Valenzuela and M. Vassalle 21

Dilated Cardiomyopathy: Utility of the Transverse:Frontal Plane QRS Voltage Ratio
By A.L. Goldberger, T. Dresselhaus and V. Bhargava 35

Electrocardiographic Criteria for Differentiating Aberrancy and Ventricular Extrasystole in Chronic Atrial Fibrillation: Validation by Intracardiac Recordings
By S. Gulamhusein, R. Yee, P.T. Ko and G.J. Klein 41

Time Course Alterations of QTC Interval Due to Hypaque 76
By M. Amidi and J. Shaver 51

Qualitative and Quantitative Evaluation of the Exercise Electrocardiogram in Assessing the Degree of Coronary Heart Disease
By I. Hajduczki, I. Berenyi, E. Enghoff, P. Malmberg and U. Erikson 55

Effect of Brief Bursts of Carotid Sinus Stimuli on Heart Rate and Atrioventricular Conduction
By D.G. Pace and P. Martin 63

The Brody Effect and Change of Volume of the Heart
By J.N. Amoore 71

Ability of Standard ECG Parameters to Detect the Body Surface Isopotential Abnormalities of Pacing Induced Myocardial Ischemia in the Dog
By D.M. Mirvis 77

Ventricular Arrhythmias Following One-Stage and Two-Stage Coronary Reperfusion: Evidence for Both Reentry and Enhanced Automaticity
By G. Kabell, B.J. Scherlag, J. Brachmann, L. Harrison and R. Lazzara 87

Effect of Higenamine on Action Potential of Ventricular Myocardial Cells
By G.R. Yu, B.Y. Wang, D.S. Zheng, M.X. Huang, B.K. Gu, Y.L. Chen, M. Shang, Z.J. Jin and T.O. Cheng 97

Case Report:

Asystole During Treatment with Amiodarone in a Patient with Persistent Atrial Tachycardia
By C.-S. Kuo, C.P. Reddy and M.V. Paciotti 105

NUMBER 2

In Memoriam:

Zang Z. Zao, M.D.

Original Communications:

Comparative Accuracy of Computerized Spatial Vectorcardiography and Standard Electrocardiography for Detection of Myocardial Infarction
By M.J. Cowan, R.A. Bruce, D. Van Winkle, L. Davidson and A. Killpack 111

Automatic Identification of Late Potentials
By U. Karbenn, G. Breithardt, M. Borggrefe and M.B. Simpson 123

Cycle Length Change During Reciprocating Tachycardia in Patients with Wolff-Parkinson-White Syndrome
By K. Shimomura, T. Ohe, K. Yorozu, S. Kobayashi, T. Funahashi, M. Matsuhisa, S. Kamakura and I. Sato 135

Traumatic Heart Block and Tachyarrhythmia Induced by Right Ventricular Impact
By I.V. Lau 141

Characterization of Impact-Induced Tachyarrhythmia Utilizing Propranolol, Quinidine and Pacing
By I.V. Lau 151

A Quantitative Method for the Localization of the Ventricular Pre-Excitation Area in the Wolff-Parkinson-White Syndrome Using Singular Value Decomposition of Body Surface Potentials
By A. Sippens Groenewegen, H.H.M. Spekhorst and E.J. Reek 157

Mechanism of Antiarrhythmic Action of β-Blocking Agents
By S. Sugiyama, M. Hattori, Y. Miyazaki, S. Nagai and T. Ozawa 169

Significance of ST-Segment and T Wave Changes in the Resting Electrocardiograms of Patients with Exertional Angina, Studied by Exercise Radionuclide Angiocardiograms
By Y. Sugishita, S. Koseki, M. Matsuda, R. Ajisaka, K. Iida, I. Ito, M. Ooshima, T. Takeda and M. Akisada 175

Frequency Content of the Electrocardiogram. Spatial Features and Effects of Myocardial Infarction
By T.L. Nichols and D.M. Mirvis 185

Case Report:

Asynchronous Intraventricular Recovery as a Basis for Apparent 'Supernormality'
By G. Oreto, F. Luzza, H.O. Klein, D. David, E. Kaplinsky and L. Schamroth 195

NUMBER 3

Editorial

Original Communications:

Electrocardiographic Estimate of Peak Systolic Pressure Gradient in Children with Aortic Stenosis
By *M.S. Shaffer, R.S. Fowler, P. Corey, C. Steele, M.L. Rigby and R.D. Rowe* 203

Localization of Cardiac Ectopic Activity in Man By a Single Moving Dipole. Comparison of Different Computation Techniques
By *P. Savard, A. Ackaoui, R.M. Gulrajani, R.A. Nadeau, F.A. Roberge, R. Guardo and B. Dube* 211

Effects of Tachycardia with Normal and Ectopic Ventricular Activation On S-T Segment Potential and Patterns In The Dog
By *D.M. Mirvis and J. Marin-Garcia* 223

P-Wave Changes in Obstructive and Restrictive Lung Diseases
By *K. Ikeda, I. Kubota, K. Takahashi and S. Yasui* 233

Normal Variations In Body Surface Electrocardiographic Potential Distributions During QRS: Effects of Exercise and Exercise Training
By *W.T. Miller, R. Kertzer, C.L. Bunk and L.A. Alexander* 239

Evaluation of Transthoracic Countershock With Initial Energy Levels Up to 200 J In A Coronary Care Unit
By *R.H. Geuze and P.J. de Feijter* 251

Sinus Node Echoes and Concealed Concealed Conduction: Additional Sinus Node Phenomena Confirmed in Man By Direct Sinus Node Electrography
By *J.A. Reiffel, J.T. Bigger, K. Ferrick, F.D. Livelli, J. Gliklich, P. Wang and R. Bosner* 259

Holter ECG Study of the Electrocardiographic Phenomena in Prinzmetal Angina Attacks With Emphasis On the Study of Ventricular Arrhythmias
By *A. Bayes de Luna, F. Carreras, M. Cladellas, F. Oca, F. Sagues and M. Garcia Moll* 267

Epicardial Isopotential Mapping From Body Surface Isopotential Mapping In Myocardial Infarction
By *S. Toyama, K. Suzuki, T. Takahashi and Y. Yamashita* 277

Effect Of Perfusion Rate Of Cholinergic Agonist On Sinus Node Automaticity
By *J.M. Loeb, J.M. deTarnowsky and T.R. Aksamit* 287

Case Reports:

Atrioventricular Nodal Reentry In The Wolff-Parkinson-White Syndrome
By *R. Yee and G.J. Klein* 295

Amitriptyline-Induced Torsade de Pointes. Successful Therapy With Atrial Pacing
By *E.T. Davison* 299

Ventricular Arrhythmia with Postural Dependency
By *R. Shibuya, M. Kimura, E. Oda, Y. Aizawa, T. Izumi, T. Ozawa and A. Shibata* 303

NUMBER 4

Original Communications:

Racial Differences in Electrocardiograms and Vectorcardiograms Between Black and White Adolescents
By *P. Syamasundar Rao* 309

Late Potential-like Deflections in the ST Segment of Normal Subjects
By *S.N. Erne, H.D. Hahlbohm, J. Korsukewitz and H.P. Lehmann* 315

Effects of Activation Sequence On Ventricular Refractory Periods of Ischemic Canine Myocardium
By *M.J. Burgess, B.M. Steinhaus, K.W. Spitzer and L.S. Green* 323

Does A-H Interval Accurately Represent Intranodal Conduction Time During Ectopic Rhythms?
By *S. Yamada and Y. Watanabe* 331

Effective Extraction of Diagnostic ECG Waveform Information Using Orthonormal Basis Functions Derived From Body Surface Potential Maps
By *F. Kornreich, P.M. Rautaharju, J.W. Warren, B.M. Horacek and M. Dramaix* 341

Exercise Electrocardiographic Mapping in Normal Subjects
By *D.D. McPherson, B.M. Horacek, D.J. Sutherland, C.S. Armstrong, C.A. Spencer and R.J. Montague* 351

Detection of Posterior Myocardial Infarction by Body Surface Mapping: A Comparative Study with 12 Lead ECG and VCG
By *K. Ikeda, I. Kubota, I. Tonooka, K. Tsuiki and S. Yasui* 361

The Clinical Implications of Electrocardiographic Changes in First Acute Myocardial Infarction
By *M.H. Aysha and M.A. Shayib* 371

Electrophysiological Effect of Disopyramide on Rabbit Sinus Node Cells
By *H. Kotake, J. Hasegawa, T. Hata and H. Mashiba* 377

A Chronobiologic Study On Some Cardiovascular Parameters
By *V. de Leonardis, M. de Scalzi, F.S. Fabiano and P. Cinelli* 385

Case Reports:

Left Bundle Branch Block with Right Axis Deviation: A Marker of Congestive Cardiomyopathy
By *G. Nikolic and H.J.L. Marriott* 395

Stroke Masking Electrocardiographic Abnormalities
By *M.H. Choo, B.L. Chia and L. Tan* 405

Prime Number Variant of Concealed Trigeminy
By *C.M. Medeiros, N.P. Medeiros, N.C. de Nonohay and R. Rodrigues* 409

Index 415